Accepted Manuscript

Title: Structural components manufactured by Selective Laser Melting and Investment Casting—impact of the process route on the damage mechanism under cyclic loading

Authors: S. Leuders, S. Meiners, L. Wu, A. Taube, T. Tröster,

T. Niendorf

PII: S0924-0136(17)30161-9

DOI: http://dx.doi.org/doi:10.1016/j.jmatprotec.2017.04.026

Reference: PROTEC 15204

To appear in: Journal of Materials Processing Technology

Received date: 22-5-2016 Revised date: 25-4-2017 Accepted date: 29-4-2017

Please cite this article as: Leuders, S., Meiners, S., Wu, L., Taube, A., Tröster, T., Niendorf, T., Structural components manufactured by Selective Laser Melting and Investment Casting—impact of the process route on the damage mechanism under cyclic loading. Journal of Materials Processing Technology http://dx.doi.org/10.1016/j.jmatprotec.2017.04.026

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Submitted to Journal of Materials Processing Technology in revised form, February 2017

Structural components manufactured by Selective Laser Melting and Investment Casting – impact of the process route on the damage mechanism under cyclic loading

S. Leuders^{1,2,*}, S. Meiners², L. Wu^{3,5}, A. Taube^{1,4}, T. Tröster^{1,2}, T. Niendorf⁵

¹ DMRC (Direct Manufacturing Research Center),

Mersinweg 3, 33098 Paderborn, Germany

² Lehrstuhl für Leichtbau im Automobil (Automotive Lightweight Construction),

Pohlweg 47-49, 33098 Paderborn, Germany

³ voestalpine Additive Manufacturing Center GmbH,

Hansaallee 321, 40549 Düsseldorf, Germany

⁴ Lehrstuhl für Werkstoffkunde (Materials Science),

Pohlweg 47-49, 33098 Paderborn, Germany

⁵ Institut für Werkstofftechnik (Materials Engineering),

Mönchebergstr. 3, 34125 Kassel, Germany

Download English Version:

https://daneshyari.com/en/article/5017993

Download Persian Version:

https://daneshyari.com/article/5017993

<u>Daneshyari.com</u>